

MasterRoc[®] ACP 230

Next-Generation Clay-Separating Polymer for Earth Pressure Balance Tunnel Boring Machines (EPB-TBM)

Material Description

MasterRoc[®] ACP 230 is a liquid polymer, specially designed for clayey soils with clogging and adhesion. The use of **MasterRoc[®] ACP 230** eliminates stickiness & adhesiveness of the clay, allowing easy and convenient transport of muck and reducing the risk of TBM blockage.

Characteristics and Benefits

- Breaks down clay, reducing its stickiness and adhesiveness, even under conditions of pressure and high temperature of the cutting head and in the mixing chamber
- Reduces the torque and increases TBM speed
- Avoids the formation of lumps which can block the cutting head
- Permits the reduction of separately injected water to decrease the torque
- Facilitates the evacuation of muck by screw conveyor & conveyor belt.
- Ready to use product, no mixing required

Application Procedure

MasterRoc[®] ACP 230 can be used with normal foam generating systems. It can be used in dilution with water or together with **MasterRoc SLF / ACP IXX** foaming agents. Other foaming agents can cause compatibility problems. For the first use and combination with other soil conditioning please contact your local **Master Builders Solutions** representative. **Master Builders Solutions** takes no responsibility for any possible secondary effects which

are the result of the combination of **MasterRoc[®] ACP 230** with products not previously recommended by **Master Builders Solutions** representative.

Dosage

The normal dosage of **MasterRoc[®] ACP 230** is between 0.5-2.0 kg/m³ of soil in situ, depending on the

- quantity of water added
- soil humidity
- soil permeability

We strongly recommend executing laboratory trials prior to the use of the polymer on the TBM in order to determine the optimum dosage and obtain a maximum benefit.

Dosing System

MasterRoc[®] ACP 230 can be used with the standard TBM dosing and foaming equipment.

Handling

Do not mix pure **MasterRoc[®] ACP 230** with any other pure soil conditioning additives as this may cause immediate gel formation. If several foaming products or polymers are used on the TBM, it is preferable to reserve a specific transfer or dosing pump for **MasterRoc[®] ACP 230**. If a transfer or dosing pump is being used for more

Technical Properties

Purpose of Use	Clay Separator
Form	Liquid
Color	Light Brown
Specific Gravity (22.5°C)	1.026 ± 0.02 kg/l
Viscosity (Brookfield spn I/30RPM-200C)	≤50 mPa.s
Ph (ISO 4316- 200C)	7±1

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than one product, the pump should be cleaned with water before switching to other products.

Packaging

MasterRoc® ACP 230 is available in standard 1000 kg IBCs and bulk.

Storage and Shelf Life

MasterRoc® ACP 230 should be stored in a clean, dry place at temperatures between 10 – 40 °C, in its original sealed packaging, protected from freezing. Under these conditions, the product can be stored safely for up to 12 months.

Please contact your local **Master Builders Solutions** representative if frozen products are used.

Health and Safety

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the

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Contact

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